

UN500D1 Specifications

FEATURES

- European, oil-cooled, two-headed motor-driven servo drive delivers fast response and maximise energy efficiency
- Austrian KEBA control with dual CPU is stable, fast & accurate with 12" TFT colour touch screen display
- Based on European design technology
- High rigidity clamping unit delivers stability & accuracy, combined with uniform stress distribution on the tie bars
- Rexroth highly responsive dual proportional valves on clamping unit offers accurate repeatability
- L-shape guide rails deliver platen movement accuracy up to 0.05mm
- Mould open position accurate to ± 0.2 mm
- Tie bars independent of moving platen offers precision & speed
- Dry cycle times up to 55% faster than toggle lock machines
- Small footprint compared to traditional three platen design
- Low pressure & highly sensitive mould protection
- Integrated linear guide rails on injection unit offer low resistance and accuracy
- Repeatability of part weight $\leq 3\%$
- Durable ceramic heater bands
- Time, position or pressure switchover for holding phase start
- Ultrasonic displacement sensor
- Central lubrication for injection unit
- European oil seals & guide rings
- Double core pull
- Double air blast circuit
- Euromap robot interface & Euromap mounting
- Hydraulic ejector
- T-Slot platen
- Auto mould height adjustment
- Oil pre-heating
- IP54 electrical enclosure
- Precise filtration and independent cooling system
- Service, warranty & parts supported by our in-house engineers



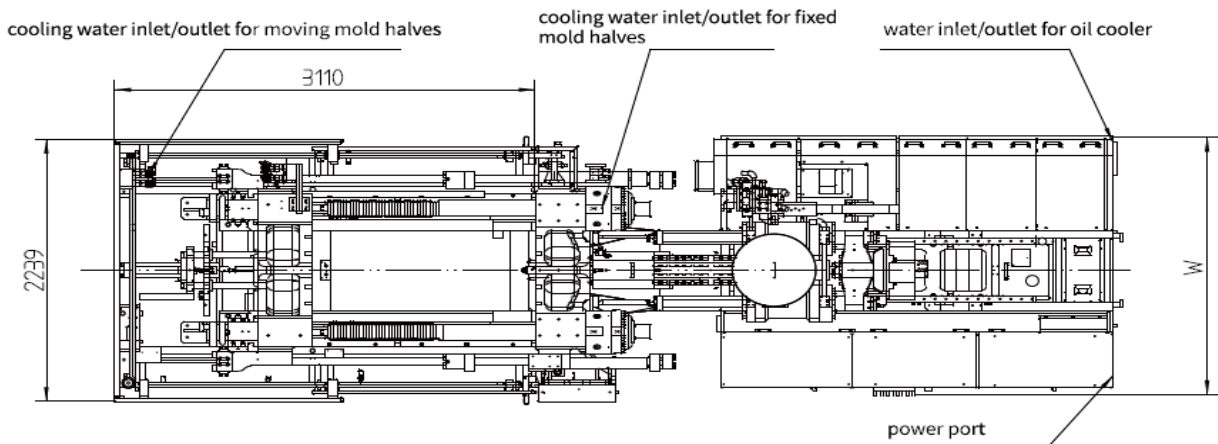
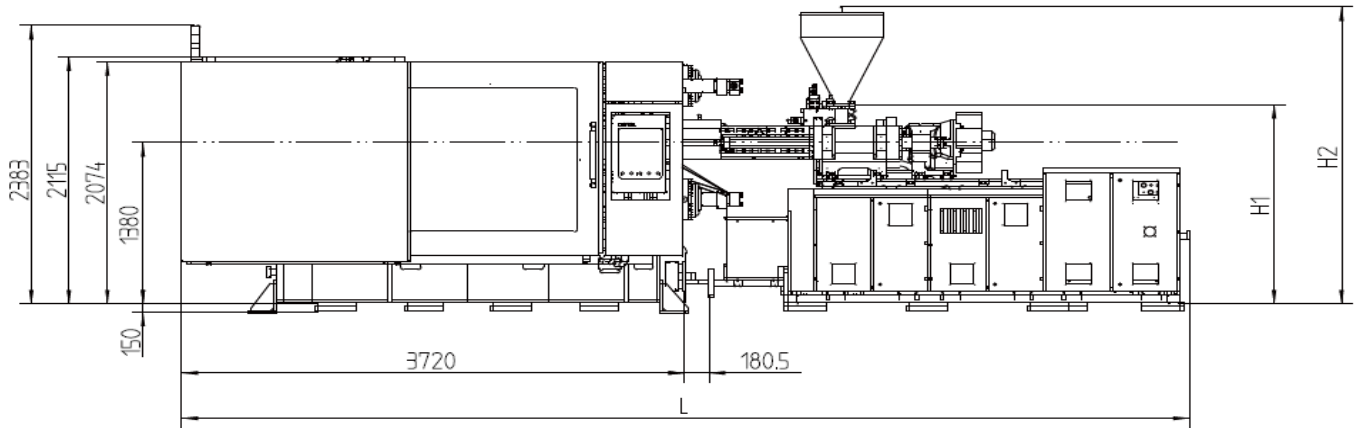
INJECTION UNIT		1885			2695			3330			4800		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	60	68	76	68	76	84	76	84	92	84	92	108
Shot volume	cm ³	834	1071	1338	1198	1497	1829	1678	2050	2460	2217	2659	3664
Shot weight	g	767	986	1321	1103	1377	1683	1544	1886	2263	2039	2446	3371
Injection pressure	MPa	226	176	141	225	180	147	199	162	136	218	181	131
Screw L:D ratio		22.6	20	20	22.3	20	20	22.1	20	20	21.9	20	20
Injection rate	cm ³ /s	322	414	517	383	478	584	430	526	632	516	619	853
Max. injection speed	mm/s	114			105			95			93		
Screw stroke	mm	295			330			370			400		
Max. screw speed	r/min	250			184			147			154		
Barrel heating zone no.	PCS	5			6			6			6		

CLAMPING UNIT													
Clamping force	kN	5000											
Opening force	kN	390											
Platen size	mm	1270 x 1260											
Distance between tie-bars	mm	910 x 830											
Mould thickness (min-max)	mm	350 - 950											
Opening stroke	mm	1300 / 750											
Max. daylight	mm	1650											
Ejector force	kN	110											
Ejector stroke	mm	250											
Ejector number	PCS	21											

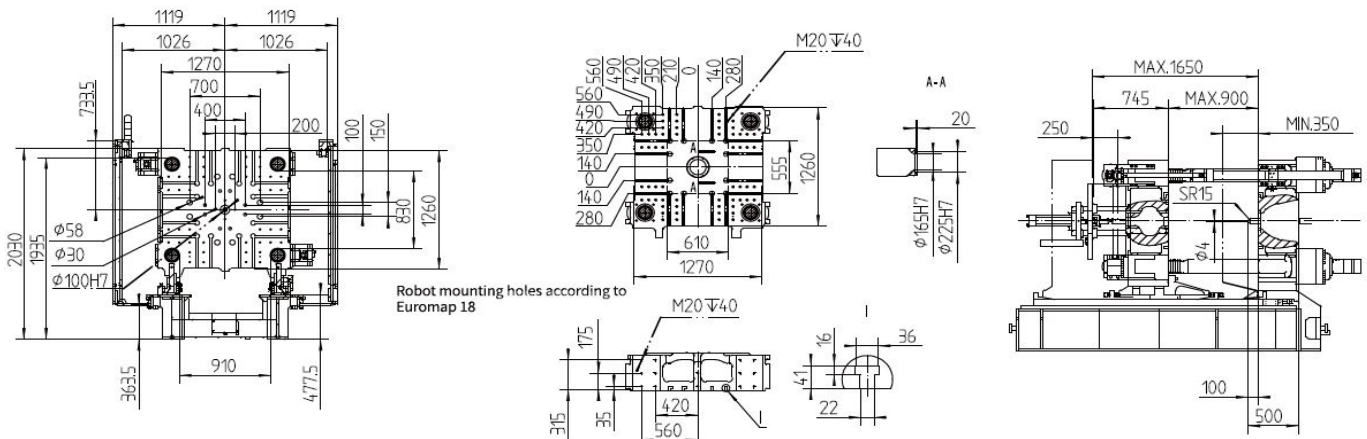
ELECTRICAL & HYDRAULIC UNITS													
System pressure	MPa	17.5 / 30			17.5 / 30			17.5 / 30			17.5 / 30		
Pump motor	kW	55.6 + 7.5			65 + 7.5			60 + 7.5			66 + 7.5		
Total power	kW	85.3	85.3	87.7	93.9	93.9	98.4	100.6	100.6	103.7	111.3	111.3	120.5
Heater power	kW	22.2	22.2	24.6	26.4	26.4	30.9	33.1	33.1	36.2	37.82	37.82	47

GENERAL													
Oil tank capacity	L	650			750			750			1000		
Machine dimensions (LxWxH)	m	7.4 x 2.3 x 2.5			7.5 x 2.3 x 2.6			7.5 x 2.3 x 2.6			7.8 x 2.3 x 2.6		
Machine weight	T	12 + 4			12 + 5			12 + 5.5			12 + 6.5		
Max. mould weight	T	8			8			8			8		

MACHINE DIMENSIONS



PLATEN DRAWINGS



Model	A	B	L	H1	H2	W	Main power cord size	Full-load current	Bearing capacity of foundation	Number of cooling water	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
	mm	mm	mm	mm	mm	mm	mm ²	A	t/m ²	n×L/min	L/min	bar	bar
UN500D1-IU1885	SR10	∅3.5	7400	1687	2455	2198	70	161.46	8	(8+8)×11	150	3~4	5~6
UN500D1-IU2695	SR15	∅4	7500	1707	2560	2198	70	176.74	8	(8+8)×11	150	3~4	5~6
UN500D1-IU3330	SR15	∅4	7500	1707	2600	2198	70	186.89	8	(8+8)×11	150	3~4	5~6
UN500D1-IU4800	SR15	∅4.5	7800	1971	2630	2198	70	215.49	8	(8+8)×11	150	3~4	5~6